



User's Guide

Welcome to EL-Link Software

The Main Program Features

- The EL-Link program allows sending data to a PC, and sending them back to SHARP®, so data can be stored in floppy or hard disk, they can be printed, and this program makes entering new data items and modifying existing data items much easier.
- In EL-Link one can display, edit and print the data items by the aid of the accentuated SHARP character set. The ZQ-5xx and the YO-5xx show and edit the accentuated letter, but the other unit show the letters without accent.
- SHARP <=> PC connection with all SHARP electronic organizers:

EL-6750, EL-6790, EL-6850, EL-6890, ZQ-190, ZQ-195, ZQ-520, ZQ-540,
YO-190, YO-195, YO-520, YO-540,

New unit models are being built in this software continuously.

- Data Communication:
 - Can be transmitted one data item at a time or complete register or the all SHARP memory (backup). In case of the ZQ-5xx and YO-5xx types the EL-Link supports the **PC Sync** direct synchronize function and can be transmitted more or all register at a time.
 - When sending data, the SHARP unit's register is overwritten automatically, while in case of again receiving, it starts receiving automatically.
 - Filtering or - in PC Sync case - deleting double entries.
 - Harmonizing the database of both unit according to „keyfields” with the **Update** function by all calculator types. Harmonizing with chaining data items of one unit to data items of another unit using by **Direct synchronize** (PC Sync).
 - Automatic PC Sync start on PC by pressing PC Sync key of unit.
 - Automatic COM port control and cable recognition.
- The program interface and its handling is similar to those of Editor programs (File Edit Search ... menu commands)
- Menus are similar to that of Windows, and the application has a windowed structure.
- Editing data items by the aid of an integrated editor using standard keyboard assignment. Edition can be performed either in the width of the SHARP display or in a variably wide window. Clipboard operations are supported.

- Data exchange with other programs, by keeping the accentuated characters of the code tables CWI, 852 and Windows ANSI. (Excel®, Word®, Outlook®, Outl. Express®, Lotus Organizer®...etc.)
- Support for all the registers, i.e. modes of the Unit model: Telephone, E-Mail, URL, Memo, Calendar, Schedule, Anniversary, To do, Expense, Calculator
- Text search and replace functions.
- Filter function with, combined filtering criteria (e.g. listing all the people named John and living in Vienna).
- Sorting data by several criteria.
- Selecting data items and performing operations with selected items. (delete, copy, move, print, send to SHARP®, export in file to other applications, ...etc.)
- Copy from one register into another (e.g. Tel 1 → Tel 2).
- These functions add extra data arranging functions to the features of the SHARP® equipment.

Data Save and Retrieving (hard and floppy disks)

- Database files can be stored on hard disk, floppy disk, or other writable drive, or work in network environment (e.g. Novell).
- The structure of the file is database where 200.000 pcs data items can be stored in.
- This is a multiuser database that means several users can access the database at the same time. The same data can be read or written simultaneously using several PCs and EL-Links in network environment.
- The modified data items are immediately being written into the database so you don't need to save at the end of the work or load at the beginning. Opening or closing takes zero time.
- Database can be protected with password, preventing from unauthorized users.
- Exporting to and Importing from Excel, Dbase, Foxpro, Access, Text, CSV, Tab, and other delimited DOS and Windows files by the aid of CWI, 852, Windows Ansi code tables.
- Data exchange between EL-Link <=> Windows Write®, Word®, Excel®, Access®, Lotus Organizer®, Outlook®, Schedule+®, Outlook Express® ..etc.
- Loading documents and descriptions by splitting them to the size of the SHARP® data unit.

Printing

- Printing in 8 different and variable base format:
 - Detailed list: in SHARP style, full print from first character of the data item to last.
 - Quick list: one data item printed in only one row (as far as there is room).
 - Table: one data item printed in only one row, and the fields in columns.
 - Label: one data item printed to defined size label, with custom field placing.
 - Phone list: The name, employer, and phone number fields (if exists) printed in table format.
 - Calendar: traditional calendar printing with marked days and marks of scheduled items.
 - Date diary: schedule, reminder, todo, expense of one defined period printed.
 - Expense list: creating expense report of one defined period (if exists expense register).

Hardware requirements, operating systems

- The program runs in PC with 486DX2 or any faster processor, but above 100 MHz (chiefly to PCSync) is recommended. The memory requirement is 4 MB, and hard disk capacity needed is 20 MB.
- Runs under Windows 3.1, 3.11, 95, 98, 2000, NT, MN, XP.
- The program can be used in Novell or other networks.
- The EL-Link can be used with **any** SHARP® compatible **serial data communication cable**. The 2.5 Jack plug cable be needed to the new SHARP® EL-..., ZQ-... type units. This cable can be included the electronic circuit. This electronic circuit convert the level of signal from one unit to another, because the signal level of the EL, ZQ units smaller than of PC (3V<12V) and because of this the communication not work in all PC without electronic circuit. The 2.5 EL-Link cable include the electronic circuit, but the original SHARP cable not include.

Packing list

- **Data communication cable:** special EL-Link cable with electronic circuit is integrated in the connector (Each items are packed after controlling with a test program simulating heavy load), or original SHARP cable in package of unit. "Only Software" kit in plastic bag doesn't include cable.
- 2 pcs **3½ Floppy disk** with the EL-Link software.
- **User's Guide.**
- **Registration card.** The user becomes registered user after sending back this card. New versions will be provided for her/him only for the reproduction and posting costs, or gratis from Internet:
<http://web.interware.hu/pclink>. Make your registration yourself in E-Mail to ellink@freemail.hu address, you will immediately be informed of upgrade!
- **12 months full warranty**, service for at least 10 years, spare part provision, software updates.

Using the program (Getting started):

1. Installation, starting

- The EL-Link software package can be installed on the hard disk by means of the **Setup.exe** file of the supplemented **floppy disk** number one. The same software package at the same time cannot be installed and used on additional PC. (You can install and use this package on an additional PC if you by the license of "Partner Copy" at a low price, see on web page: <http://web.interware.hu/pclink>, or send E-mail to ellink@freemail.hu !)
- If you download or upgrade EL-Link software from the **Internet** then you can start the installation with **EL-Link.exe** packed file in your download folder, then give the finalizer "reply code" or select the "Trial version installation" menuitem. (You can get the "reply code", if buying the license and sending the "random code" by E-mail from the window of setup software.)
- In setup software can be given the destination driver/folder – place of EL-Link software –, and the database file folder – place of created EL-Link database files. This database file folder can be created to network drive as well, if you give the suitable network drive letter.
- If you have Win 95, 98, 2000, NT, MN, XP start EL-Link from the desktop or the EL-Link folder by clicking the Shortcut icon **EL-Link**, or use EL-Link menuitems in the Start menu Programs menu, or maybe the Start menu Run... menuitem.
- EL-Link can be started from under the Win 3.1, 3.11 operating system with the EL-Link shortcut icon in EL-Link window of the Program Manager, or in menu: Program Manager File Run Browse ELLINK.EXE.
- Remove the installation by "Uninstall EL-Link" menuitem in Start menu Programs menu, or **UnIns.exe** program from EL-Link folder.

2. Getting acquainted with the program

- To create new dossier (database) with the *File New dossier* menuitem (Alt-F, N), select the Your SHARP unit type and give the security level and password of dossier.
- Discover the program:
 - Menu system of the program: active menu shortcuts can be highlighted by pressing *Alt* key. Submenus can be opened by pushing the proper key combinations: Alt-F, Alt-E, Alt-S, Alt-V, Alt-C, Alt-O, Alt-W, Alt-H.
 - Editor: *Enter* key : editing the actual data item, *Insert* key : editing the new data item, *Ctrl-Enter* key : finishing the edition and fixing the item, *Esc* key : discarding the edited item. Standard editing keys.
 - Data Item Viewer: < ® key: viewing data items, ↓ ♦ key: register selection, A...Z key: quick search, Shift-< ® key: highlighting.

3. Communication SHARP=>PC Receive

- The SHARP contents can be copied in an empty database by using menu commands *File New dossier* (Alt-F, N). Give the SHARP unit type in the *New dossier* window. In case of existing dossier the unit type can be modified in the *Options Unit type* window (Alt-O,U).
- If SHARP containing secret items , you can set the database to secret mode in the *New dossier* window, or for existing dossier you can convert to secret mode in *Options Unit type* window (Alt-O,U).
- Connect the cable to the COM (serial) port of the PC.
- Set the data communication parameters in the *Options Communication parameters* window (Alt-O, C).
- Go to the Receive window by the menu point *Communication Receive* (Alt-C, Enter), and then select the mode of data receiving, and set up options.
- Start receive on PC with OK button, or Enter key.
- Do the things listed in Receive... window, that is start sending in SHARP.
- When reception is finished, you can start again the receiving and can send another register or data items or finish data communication.

4. Communication PC=>SHARP Send

- When starting EL-Link the program loads the recently used database by default. If you want to upload another database into EL-Link, do it with the function *File Open* (Alt-F, O).
- Connect the cable to the COM (serial) port of the PC.
- Set the data communication parameters in the *Options Communication parameters* window (Alt-O, C).
- Go to the Send window in the menu point *Communication Send* (Alt-C, S), then select the scope of send, that is transmit one item or one or more registers and can be set the other options of sending.
- Start sending on PC with OK button, or Enter key.
- Do the things listed in Send... window, that is start receiving on SHARP.
- When more or all register sending to not PC Sync unit is finished, it is necessary that set the unit again to reception of the following register.

5. Direct Synchronize (PC Sync)

- If PC Sync function available in your unit, the database of the actual dossier and the unit can be harmonized with the *Communication Direct synchronize* menuitem. (Alt-C, D). Set up in *Options Communication parameters* window to start the direct synchronize in PC automatically by pressing the PC Sync key (without touching PC).
- Connect the cable to the COM (serial) port of the PC.
- Set the data communication parameters in the *Options Communication parameters* window (Alt-O, C).
- Set up in pop-up window of Direct Synchronize the Conflict Solution Method and other options, then start receive with OK button.
- Start synchronization on SHARP. (PC Sync key.)
- In case of first synchronization give the name of the synchron table, and the mode of first harmonizing.

6. Backup save SHARP=>PC

- If you have not exactly entered type of your SHARP equipment yet, now you should do it in the window *Options SHARP unit model* (Alt-O, Enter).
- Connect the cable to the COM (serial) port of the PC.
- Set the data communication parameters in the *Options Communication parameters* window (Alt-O, C).

- Go to the window Backup save by the menu point *Communication Backup save* (Alt-C, B), specify the file name for saving all the data stored in the SHARP memory.
- If you go on with the menu point *OK* <Ctrl-Enter>, a panel will pop up where all the things are listed that are required for backup saving.
- Do the things listed in Backup... window, that is start backup sending on SHARP.

7. Restore PC=>SHARP

- If you have not exactly entered type of your SHARP equipment yet, now you should do it in the window *Setup SHARP unit model* <Alt-O, Enter>.
- Connect the cable to the COM (serial) port of the PC.
- Set the data communication parameters in the *Options Communication parameters* window (Alt-O, C).
- Select the Restore file window by using the menu point *Communication Restore* <Alt-C, E> and find the file where the SHARP' s memory contents are stored.
- If you go on with the menu point *OK* <Ctrl-Enter>, a panel will pop up where all the things are listed that are required for restoring.
- Do the things listed in Restore... window, that is start restore receiving on SHARP.

8. File (database) save

- The EL-Link stores the data items in database file saved in hard or floppy disk.
- Modifications in the database (e.g. received data from SHARP, created new data items, modified ..etc.) are saved immediately by EL-Link at the moment of modification. So when leaving EL-Link you won't need to save the file or load it at starting only close or open the dossier.
- Opening or closing the dossier requires no time at all even if having many data items. Maximum 200.000 pcs data items can be created and stored in one register. (In theory 500 thousand pcs in the Memo register, and 8 million pcs in others registers, but tested only with 200 thousand pcs.)

9. Export, import

- The database can be saved (exported) to different file type by using the menu point *File Export* (Ctrl-E) or (Alt-F, E).
- Files being saved with Export function can be loaded into another software where you can view it or continue working with it. E.g: the data items of dossier can be transferred to Excel.
- Data items of different file types can be loaded or reloaded to the actual dossier with the *File Import* menuitem (Ctrl-I) or (Alt-F, I).
- The export, import file type can be:
 - DD-Link: own file format, to old DD-Link for DOS (CASIO⇔PC) software.
 - ZQ-Link: own file format, to old ZQ-Link for DOS (SHARP⇔PC) software.
 - Text: jointless text, to text editor e.g. MS Word®, MS Write®.
 - Tab: separated text with tabulators, to text editors or spreadsheet managers.
 - CSV: separated text with semicolon, to spreadsheet managers e.g. MS Excel®.
 - DBF : Dbase®, Foxpro® files to database editors.
 - MS Excel: Excel type file, to the MS Excel® and other spreadsheet managers.
 - MS Access: Access type file, to the MS Access® database editor and the MS Visual Basic® softwares.
 - Paradox: Paradox type file, to spreadsheet managers and the Delphi® or Pascal softwares.
 - Outlook: to data change with MS Outlook®, MS Outlook Express® softwares.
 - Lotus Org.: to data change with Lotus Organizer® software.
 - Other: any delimited text file, delimited characters can be given in window.

10. Dossier (database file) open, new and empty dossier

- Starting EL-Link the program opens the database that has been used for the last time.
- If you would like to use another database you can select it in the window *File Open* (Alt-F, O). Here you can choose drive, directory (or folder).
- New, empty dossier (database) can be created by using the menu point *File New file* (Alt-F, N), where you can give immediately the SHARP unit type and the dossier type to be secret or open. If you would like to modify the unit type or secret mode later you can do it in the *Options Unit type* window (Alt-O, Enter) or the *Options Secret mode* window (Alt-O, S).

11. Dossier (database file) printing

- The Dossier can be printed by using the menu point *File Print* (Alt-F, P or Ctrl-P).
- 8 different and variable base format can be selected. You can print color, graphic, with icons.
- With the *Printer...* button you can select the required printer unit, and here you can set up.
- The *Options...* button calls the *Options* window, which adjust the margin, header, footer, title of printing, width of data items, font type, and other parameters in.
- The fields to be printed can be selected by using the *Fields...* button.
- Before printing you can view the final result on the display by using the *Preview...* button.

12. Dossier (database) rename, merge, copy, archive

- The opened dossier (database) can be renamed by using the function *File Rename* (Alt-F, R)
- Merging data items of another dossier (database) to the opened use the function *File Merge* (Alt-F, M). The mode of merge can be selected in the *Action* menu that data items to *Append* to dossier, or to *Overwrite* the full dossier with the registers of another one. You can choose *Write in*, too when data items are being written to the original registers of actual dossier and overwrite the contents of that. The contents of opened dossier can be refreshed corresponding to the selected „keyfields” of both dossiers using *Action Update*.
- The *File Copy* function (Alt-F, Y) can be used to copy the data items of opened dossier (database) into another – even not existing – dossier by selecting transaction in *Action* menu. Data items of actual dossier can be copied into equivalent registers of destination dossier by *Action Append* keeping the originals unchanged. Selecting *Action Overwrite* the full destination dossier will be overwritten with the registers of the actual dossier. In case of *Action Write in* only the source data items of the destination dossier will be overwritten. The contents of destination dossier can be refreshed corresponding to the selected „keyfields” of both dossiers using *Action Update*.
- Old date data items can be moved to archival dossier by using the menu point *File Archive* (Alt-F, A).

13. Deleting, Clearing, Regenerating dossier, getting Information

- You can delete the full opened dossier permanently (database) from fixed disk or floppy disk by using the menu point *File Delete* (Alt-F, D).
- You can empty the full opened dossier (database), or only some registers by using the menu point *File Clear* (Alt-F, L). In this case data items are deleted only the dossier itself not.
- If the database has been damaged or you want to reduce the file size you can refresh, resort by using the menu point *File Regenerate* (Alt-F, R).
- Status of the opened dossier can be seen in the *File Information* window (Alt-F, F): file name, date of data communication and edition, sorting, users, and all number of the data items in dossier, or one by one in registers of dossier.

14. Viewing, Searching, Replacing, Filtering

- The data items can be reviewed in the *List panel* in the left side of the dossier, while details of the actual data item can be seen on the right in *Editor panel* (⌘ ®, PgUp, PgDn, Home.End).
- You can jump to another side (panel) by using the Tab, Shift-Tab keys, or clicking to panel with mouse. The active side is the one having the register name framed on top of. E.g. Tel/Mail 1.

- Other registers can be chosen by using the register tabs (Tel/Mail 1..2, URL, Memo, ..etc.), or left, right (⏏ ⏏) keys.
- The required data item can be found by entering the initial letters.
- You can search by any fragment of the text, in the window *Search Search...* (Ctrl-F or Alt-S, S) by the specified parameters (e.g. Search in register or Search in full database, Case sensitive, Match whole words, Non stop search, Search in selected, Search by selecting ..etc.).
- You can continue searching the actual data item on by using the menu point *Search Find next* (F3 or Alt-S, N) according to the parameters entered in the *Search* window.
- Any text part of the database can be replaced by another text by using the window *Search Search and replace...* (Ctrl-R or Alt-S, R).
- The required data items can be filtered by one or more text parts with the aid of the function *Search Filter* (F9 or Alt-S, F). The data items corresponding to the filtering criteria will be displayed in this case.
- Sorting can be set by using the menu *View Sort* (F7 or Alt-V, S).

15. Select, Copy, Cut, Paste, Delete, Make to secret/opened, Mark

- The required data items can be selected for an operation (Copy, Delete, etc.) by means of the mouse (Shift-Left or Right button) or the keyboard (Shift-⏏).
- If no data items are selected, the operation (Copy, Delete, etc.) will be performed on the actual data item.
- Selected data items can be copied to the Clipboard by *Edit Copy to clipboard* (Ctrl-Insert or Ctrl-C).
- Selected data items can be cut and copied to clipboard deleting from the database by *Edit Cut to clipboard* (Shift-Del or Ctrl-X).
- The clipboard contents can be copied by *Edit Paste from clipboard* (Shift-Insert or Ctrl-V). (The Clipboard holds the items until quitting the program.)
- The selected data items can be deleted by *Edit Delete* (Delete).
- The selected items can be copied or moved from one register into another by using *Edit Copy/Move to another register* (Alt-E, T, / Alt-E, H).
- The selected data items can be set as secret or open by *Edit Make to secret/opened* (Alt-Del).
- The selected data items can be marked by using *Edit Mark* (Alt-*).
- The selected data items can be saved in another file: *File Copy* (Alt-F,Y) or *File Export* (Ctrl-E) } Only the selected.
- The selected data items can be sent to the SHARP Unit: *Communication Send window* (Alt-C, S) } Only the selected.
- The selected data items can be printed: *File Print* (Alt-F,P) } Only the selected.
- All the data items can be deleted from the register by *File Clear* (Ctrl-T) *Aktual* (A) menutitem.
- The actual data item can be duplicated by using *Edit Duplicate dataitem* (Alt-E, P).

16. Editing data item, new data item

- The data item found (⏏ ⏏) in the one side of dossier, i.e. in the *List panel*, can be edited in the another side, i.e. in the *Editor panel*. The editor can be activated by pressing Enter key when a data item is selected, or a double mouse click on it or clicking on the Editor panel.
- New data item can be created either in the *List panel* or *Editor window* by Alt-Insert shortcut, or one new item can be inserted among the items by Insert key in the *List panel*, or using the menu points: *Edit New dataitem* (Alt-E, N), *Edit Insert new dataitem* (Alt-E, I).
- In the Editor window, activated in the above way, the required line and position can be selected by moving the cursor there (⏏ ⏏ ⏏) (PgUp/PgDn) (Home/End). The cursor can be positioned by means of mouse as well. A field can be selected directly with the shortcuts Tab/Shift-Tab or Ctrl-⏏ ⏏ ⏏.
- Text can be written at the cursor position: in insert cursor mode the text is inserted by pushing the following texts forward. In overwrite cursor mode the character at the cursor will be replaced by the entered one. The cursor mode can be changed by the aid of (Insert) key.

- Character deletion: at the cursor position: Delete, deleting character before the cursor position: \Downarrow BackSpace.
- New line or line feed can be requested with character (\downarrow) by Enter key.
- Text part can be selected for clipboard operations (Copy, Delete, etc.) even through several fields, by the aid of mouse (Shift-Left Button), or keyboard (Shift- \langle @ \downarrow \diamond), (Shift-PgUp/PgDn), (Shift-Home/End).
- The selected text parts can be copied to the clipboard by *Edit Copy to clipboard* (Ctrl-Insert or Ctrl-C).
- The selected text parts can be cut, i.e. deleted from the text and put in the clipboard by *Edit Cut to clipboard* (Shift-Del or Ctrl-X).
- The clipboard contents can be copied by *Edit Paste from clipboard* (Shift-Insert or Ctrl-V). (The clipboard keeps its last content until quitting the program).
- Text parts can be moved in any register or window by Select Copy Paste method. E.g. the text copied in the Editor can be copied in the window *Search* (Ctrl-F), and so it should not be written once more and can be searched directly.
- The selected text can be deleted by the *Edit Delete* (Delete) function.
- Text can be searched in the editor window as well by using *Search Search* (Ctrl-F or Alt-S, S) function and search can be continued: *Search Find next* (F3 or Alt-S, N).
- One text can be replaced by another: *Search Search and replace* (Ctrl-R or Alt-S, R).
- Finally save changes of data item by using the Ctrl-Enter or click to \downarrow button in the right-top corner of editor panel.

17. Dossier (database) information

- The information window can be activated by the menu command *File Information* (Ctrl-H).
- Status of the opened dossier can be seen: file name, date of data communication and edition, file type, sorting and number of the data items.

18. Options

- Type of manager calculator assigned to dossier can be changed in the window *Options Unit type* (Alt-O, Enter).
- Parameters of the data communications can be entered, seen in the window *Options Communication parameters*. (Alt-O, C)
- The actual direct synchronization (PCsync) table can be selected in list by using the *Options Direct sync. tables (PCsync)* (Alt-O, T) menuitem.
- Date diary window look can be customized by the *Options Date diary* (Alt-O, D) menuitem.
- Local date, time, currency format can be entered, changed in the window *Options Regional settings* (Alt-O, G).
- Names of registers and fields can be modified in the window *Options Registers, Fields* (Alt-O, R). In the same place you can create new registers, fields, design the self customized dossier independently from calculator type. The not exist fields in calculator certainly don't take part in data communication.
- Names of the payment type, schedule type and priority can be modified in the windows *Payment type names* (Alt-O, P) and *Other type names* (Alt-O, O).
- Decryption of full dossier or only some data items can be turned on and off and the password can be changed in the window *Options Secret* (Alt-O, S).
- Username and password can be given to be used in multiuser and/or network environment by *Options User* menuitem. Anything will do to the name, e.g. your name.
- If more users use the same installed EL-Link, or one user uses several kinds of configuration in the same EL-Link, then you should save setup to different file (...CFG) because of the individual configuration. You have two alternatives:

- Create one shortcut icon with different working (beginning) folder to each users. The working (beginning) folder can be given in Property window (clicking Right button of mouse to icon). In this case not needed to log in, and everyone uses his own private ELLINK.CFG file.
- Everybody uses different name configuration files (...CFG) with the same working (beginning) folder. In this case needed to log in with entering password assigned to user , that EL-Link to load the individual configuration file of the user. This configuration file (....CFG) automatically gets a name (generated from user name by default) that can be changed.

The actual user can be changed by logging in with other name using the *Browse* button.

(The ...CFG configuration file includes the last opened dossiers, and their window position, size or other program settings: color, font type, date format, and last parameters of file export, import, copy, merge, text search, etc. windows.)

19. Dossier views

- The view of right and left dossier side (panel) can be changed in the actual register with the buttonpad on the left edge of its window, or just the actual side by first menuitems (Ctrl-F1..F5) of *View* menu.
- Following panels can be selected:
 - *List*: reviewing data items. (Data items are below each other.)
 - *Editor*: viewing, editing one full data item.
 - *Calendar*: browsing dates in registers provided with date.
 - *Date diary*: reviewing, editing schedules, reminders.
- Required type data items (marked/unmarked, secret/open, performed/not performed etc.) can be made visible or hide by bottom buttonpad on the left edge of window, by filtering visible data items.

20. Accessories

- The *Pocket calendar* window can be activated by using calendar button in upper buttonpad of EL-Link, or from Editor panel at date field editing. Calendar window helps choosing the required date, and Schedule or Reminder marking can be checked for dates (⌘ Ⓜ ⬇ ⬆ , PgUp/PgDn, Home/End keys, year and month selection with keys <<, >> and mouse).
- The *Time handler* window can be activated from Editor panel at time field editing.
- The *calculator* window can be activated by using calculator button in upper buttonpad of EL-Link, or from Editor panel at amount field editing.
- The *Sketch drawer* window can be activated by using paint button in upper buttonpad of EL-Link, or from Editor panel at sketch field editing.

Frequent problems:

1. There is no free COM serial port connector available on the PC

- The PC must have one free serial port for connecting the cable: COM 1...8. The COM port is also called as standard serial port. This port is used by the old mouse, external modem and other devices and programs communicating across a serial line. So does the EL-Link as well.
- COM (serial) port of the computer is a 25 or 9 pole big D letter formed socket on the back wall of the computer, connected to a communication card inside the machine.
- If you have no free COM port, then remove modem cable or connector of another equipment from the port being engaged. You can employ another serial communication (COM) card.
- If there is only USB port (Universal Serial Bus) in your PC, it is necessary to employ the serial communication (COM) card. If you have a notebook, then in addition you can employ an USB to COM converter only, or PCMCIA-COM card.

2. The computer cannot find the cable or the unit

- ◊ *The program requests EL-Link cable after starting menu points Communication Receive, Send, Synchronize, Backup save, Restore.*
- ◊ *The text EL-Link or SHARP is not written to any of the COM ports after cable detection in the window Options Communication parameters (Free, None, Reserved, Internal device, etc.).*
- If the Your cable not EL-Link type, the SHARP text only in case will be visible at the COM port in the Communication parameters window, if you click to the "Cable detection" button! In case of EL-Link cable use the EL-Link software find the cable automatically even if the SHARP unit is not connected.
- Connect the cable to the COM (Serial) port, and check the connection. If there is another COM port on the PC, connect the cable there.
- If the words "None" or "Error" are displayed at the COM ports, they should be enabled at the communication board. This can be performed in the *Bios Setup* program in case of ports integrated in the base board (Bios Setup can be approached by pressing Del key during the starting procedure of PC). The older, separate boards can be enabled by rejumping, supposing there is a description on the communication board.
- Under Windows 95, 98, 2000, NT, MN, XP look the COM and LPT ports menuitem up in Start icon Settings Control panel System window, and check whether exclamation mark exists next to the COM port. If visible, then examine this COM port (click on it), and clear the problem indicated.
- If the words "Internal device" or "Reserved or None" are displayed at the COM ports, probably the port is reserved by some other internal device, therefore such devices have to be installed and setup that if possible keep the COM1, COM3 port with IRQ4 IT, or COM2, COM4 port with IRQ3 IT. It is practical the card device to be jumpered to IRQ5 or IRQ7 interrupt and the COM3 or COM4 port.
- If there was a device installed to the COM port before EL-Link e.g. mouse, modem or other link cable (Nokia phone, handled PC, PDA), then driver of this equipment must be removed: write the word *REM* before the driver program in the files Autoexec.bat or Config.sys - e.g. REM mouse.sys and restart the machine. Under Windows 95 or latter version look for small icon in the right corner of Taskbar, and if the above COM driver program exists, it must be removed by right button click of mouse to the icon, and select the close or other remover menuitem. For final removing the Start icon Settings Control panel Add/Remove programs utility can be used.
- If the word "Free" appears at the COM ports, it means that the cable connecting the (not ATX) motherboard (or communication card) and the back wall connector is broken or is connected inversely to motherboard or the binding-in system of this cable different from the motherboard connector or maybe the link cable connector is not connected properly.
- If the Your cable not include electronic circuit (that is not EL-Link cable), can be happened that the PC not find the SHARP because of **different signal level**. The signal level of the EL, ZQ units smaller than of PC (3V < 12V) and because of this the signal of SHARP die away in the insensitive PC. The only resort for this problem the use of EL-Link cable, which include electronic circuit (<http://web.interware.hu/pclink/aellkab.html>).
- If the problem cannot be solved in no way, try the EL-Link or other PC-link cable with another PC.

3. An error message is issued in PC or SHARP after starting data communication

- ◇ *Though the PC finds the cable (the words „EL-Link” or „SHARP” are displayed beside one of the COM ports in the window Options Data communication parameters), the data communication does not work.*
- ◇ *The SHARP issues Transmit Error, Communication Error, or the PC issues a Data communication error message.*
- Turn SHARP on and set it at receiving or sending only after the window *Receive...*, *Send...*, *Synchronize...*, *Backup save...* or *Restore...* is started in the PC.
- Make sure the Jack connector put in the SHARP is connected well. Repeated problem, that this connector is not put to totally clash, because it get stuck in the final 1 mm, with a sort of totally connection feeling. Although still stands out about 1 mm. In this case you have to turn over the unit to come the connector into better view, then must be push with bigger power, while the clearance/gap fully disappears between the root of the connector and the unit.
- Under Windows 95, 98, 2000, NT, MN,XP look the COM and LPT ports menuitem up in Start icon Settings Control panel System window, and check whether exclamation mark exists next to the COM port. If visible, then examine this COM port (click on it), and clear the problem indicated.
- Make sure there are no resident programs (aggressor mouse or other driver) loaded in the files Config.sys and Autoexec.bat and Win.ini, or in Registry database, that may disturb EL-Link, or very slow down or keep down the PC. Under Windows 95 or latter version look for small icon in the right corner of Taskbar, and if the above COM driver program exists it must be removed by right button click of mouse to the icon, and select the close or other remover menuitem. For final removing the Start icon Settings Control panel Add/Remove programs utility can be used.
- If the Your cable not include electronic circuit (that is not EL-Link cable), can be happened that the communication not work with your PC because of **different signal level** or **echo symptom**. The signal level of the EL, ZQ units smaller than of PC ($0...+3V < \pm 12V$) and because of this the signal of SHARP die away in the insensitive PC. But if the PC is very sensitive then arise the echo symptom, because when the PC send the byte the EL unit immediately send back this byte by low (1 V) level signal. This echo bytes disturb the PC link software in the receiving. The EL-Link filter out this echo bytes, but this filtering slow the communication and not 100%. (The original SHARP link software not filter out the echo.) The only resort for these problems the use of EL-Link cable, which include electronic circuit (<http://web.interware.hu/pclink/aellkab.html>).
- If the problem cannot be solved in no way, try the EL-Link or other PC-link cable with another PC.
- Have your cable checked at the local SHARP service or send it to the Babos Software: Hungary H-1239 Budapest, Szikes utca 2. We will replace even the correct cables. If you don't use EL-Link cable, replace it with the special EL-Link cable.
- Try performing things above before visiting or calling us, for 9 of 10 people comes to us unnecessarily. Their cables and PCs are correct, only the operating system settings cause problems.

If you have any question, you can send E-Mail message in English to the ellink@freemail.hu address. You can send SMS message in English for the program author, whose phone number is (+36) 30 358 6303. Advice can be requested here vocally in Hungarian language too. Web: <http://web.interware.hu/pclink>

The system developer and manufacturer Zoltán Babos wishes successful utilisation of the program!

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